DO NOT REMOVE FROM THE FILE

THE EFFECTIVE DATE OF THIS ORDINANCE IS April 15, 2002

ORDINANCE NO. 02-08-304

Whereas, under section 3(s)(1) of Article 25 of the Annotated Code of Maryland the Board of County Commissioners of Frederick County, Maryland, is authorized to adopt a Plumbing Code and to incorporate by reference a Plumbing code promulgated by any Trade or Professional Association: and

Whereas, the Board of County Commissioners wishes to adopt the latest edition of the International Code Council's (ICC) International Plumbing Code, 2000 Edition, to bring the County regulations to current standards.

NOW THEREFORE, BE IT ENACTED AND ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF FREDERICK COUNTY, MARYLAND, that Article IV of Chapter 1- 14 of the Frederick County Code, 1979 is hereby amended to read as follows (***any Sections or provisions in Chapter1- 14 of the Frederick County Code not listed below remain the same as they are now):***

Sec. 1-14-56. Adoption.

There is hereby adopted by the Board of County Commissioners those certain plumbing regulations known as the [1997] **2000** Edition of the International Plumbing Code, and the whole thereof, and the same is hereby adopted, ratified and incorporated as fully as if set out at length herein.

Sec. 1-14-57 Amendments.

[Subsection 312.9 is hereby deleted in its entirety.

New subsection 312.9 to read as follows:

312.9 Inspection and testing of backflow prevention assemblies.

(a) Devices installed in a building potable water supply distribution system for protection against backflow shall be maintained in good working order by the person or persons responsible for the maintenance of the system.

(b) Devices which are designed to be field tested shall be tested prior to final inspection of the initial installation and once each year thereafter, using field test procedures conforming to ANSI/ASSE-5010 Series professional qualifications standards or equivalent. Note: testable devices are those backflow prevention devices having test cocks and include, but are not limited, to the following:

1. Pressure vacuum breakers;
2. Double check valve assemblies;
3. Double check detector assemblies;
4. Reduced pressure backflow preventors;
5. Reduced pressure detector assemblies.

(c) Where tests indicate that a device is not functioning properly, it shall be serviced or repaired in accordance with the manufacture's instructions and be retested.

(d) Testing and repair of devices shall be performed by certified individuals approved by an agency acceptable to the administrative authority. Certification for testing shall be in accordance with a nationally recognized accredited training program. Certification shall include not less than thirty-two (32) hours of combined classroom and practice training and successful completion of a written and practical examination.

(e) Copies of test reports for the initial installation shall be sent to the administrative authority and the water supplier. Copies of annual test reports shall be sent to the water supplier.

APR 15 2 30 PM '02

SANDRA K. DALTON

CAPITALS AND/ OR UNDERLINING INDICATE MATTER ADDED TO EXISTING LAW.
[Brackets] indicate matter deleted from the existing law.

pc: CAO, GIBSON, HORN, BROWNING, PENN, GROSSNICKLE, FILE

(f) Where a continuous water supply is critical, and cannot be interrupted for the periodic testing of a backflow prevention device, multiple backflow prevention devices or other means of maintaining a continuous supply shall be provided.]

SUBSECTION 312.9.2 IS HEREBY AMENDED BY ADDING THE FOLLOWING TEXT;

(a) COPIES OF TEST REPORTS FOR THE INITIAL INSTALLATION SHALL BE SENT TO THE ADMINISTRATIVE AUTHORITY AND THE WATER SUPPLIER. COPIES OF ANNUAL TEST REPORTS SHALL BE SENT TO THE WATER SUPPLIER.

(b) TESTING AND REPAIR OF DEVICES SHALL BE PERFORMED BY CERTIFIED INDIVIDUALS APPROVED BY AN AGENCY ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY. CERTIFICATION FOR TESTING SHALL BE IN ACCORDANCE WITH A NATIONALLY RECOGNIZED ACCREDITED TRAINING PROGRAM. CERTIFICATION SHALL INCLUDE NOT LESS THAN 32 HOURS OF COMBINED CLASSROOM AND PRACTICE TRAINING AND SUCCESSFUL COMPLETION OF A WRITTEN AND PRACTICAL EXAMINATION.

(c) DOUBLE CHECK VALVES AND REDUCED PRESSURE PRINCIPAL VALVES: SUCH DEVICES SHALL BE INSTALLED AT NOT LESS THAN 12 INCHES ABOVE THE FLOOR WITH THE MAXIMUM OF 60 INCHES ABOVE FLOOR. ALL TEST REPORTS SHALL BE MADE ON FREDERICK COUNTY FORMS AND THE DEVICE SHALL BE TAGGED WITH A FREDERICK COUNTY PINK CARD.

(d) WHERE A CONTINUOUS WATER SUPPLY IS CRITICAL, AND CANNOT BE INTERRUPTED FOR THE PERIODIC TESTING OF A BACKFLOW PREVENTION DEVICE, MULTIPLE BACKFLOW PREVENTION DEVICES OR OTHER MEANS OF MAINTAINING A CONTINUOUS SUPPLY SHALL BE PROVIDED.

SUBSECTION 403.1.1 IS HEREBY AMENDED BY ADDING THE FOLLOWING TEXT;

(a.) IN NEW CONSTRUCTION FOR ASSEMBLY AND MERCANTILE OCCUPANCIES, AN ACCESSIBLE UNISEX TOILET MAY BE PROVIDED WHERE AN AGGREGATE OF SIX OR MORE MALE OR FEMALE WATER CLOSETS ARE REQUIRED. IN BUILDINGS OF MIXED OCCUPANCY, THOSE WATER CLOSETS REQUIRED FOR THE ASSEMBLY OR MERCANTILE PORTION OF THE OCCUPANCY WOULD BE USED TO DETERMINE THE ABILITY TO MAKE USE OF THE UNISEX TOILET ROOM OPTION. THE INCLUSION OF THE ONE ACCESSIBLE UNISEX TOILET ROOM SHALL BE ALLOWED TO REPLACE BOTH ONE MALE AND ONE FEMALE TOILET.

(b.) UNISEX TOILET ROOMS SHALL COMPLY WITH THIS SECTION AND THE REQUIREMENTS FOR ACCESSIBLE TOILET ROOMS AS PER STANDARDS PRESCIBED IN COMAR 05.02.02 MARYLAND ACCESSIBILITY CODE.

(c.) UNISEX TOILET ROOMS SHALL INCLUDE ONLY ONE WATER CLOSET AND ONLY ONE LAVATORY.

(d.) UNISEX TOILET ROOMS SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. UNISEX TOILET ROOMS SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW SEPARATE-SEX TOILET ROOMS. THE ACCESSIBLE ROUTE FROM ANY SEPARATE-SEX TOILET ROOMS TO A UNISEX TOILET ROOM SHALL NOT EXCEED 500 FEET/152.4M.

(e.) UNISEX TOILET ROOMS SHALL BE DESIGNATED BY ACCESSIBLE SIGNS. DIRECTIONAL SIGNAGE SHALL BE PROVIDED AT ALL SEPARATE-SEX TOILET ROOMS INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET ROOM.

[Section 403.2 is hereby deleted in its entirety.
New subsection 403.2 to read as follows;

403.2 Separate facilities.

(a) In new construction for assembly and mercantile occupancies, an accessible unisex toilet may be provided where an aggregate of six (6) or more male or female water closets are required. In buildings of mixed occupancy, those water closets required for the assembly or mercantile portion of the occupancy would be used to determine the ability to make use of the unisex toilet room option. The inclusion of one

accessible unisex toilet room shall be allowed to replace both one male and one female toilet.

(b) Unisex toilet rooms shall comply with this section and the requirements for accessible toilet rooms as per standards prescribed in COMAR 05.02.02 Maryland Accessibility Code.

(c) Unisex toilet rooms shall include only one water closet and only one lavatory.

(d) Unisex toilet rooms shall be located on an accessible route. Unisex toilet rooms shall be located not more than one story above or below separate- sex toilet rooms. The accessible route from any separate- sex toilet room to a unisex toilet room shall not exceed five hundred (500) feet (152.4 m).

(e) Unisex toilet rooms shall be designated by accessible signs. Directional signage shall be provided at all separate- sex toilet rooms indicating the location of the nearest unisex toilet room.]

[Subsection 405.3.1 is hereby amended as follows:

405.3.1 Water closets, lavatories and bidets. A water closet, lavatory or bidet shall not be set closer than fifteen (15) inches (381 mm) from its center to any side wall, partition, vanity or other obstruction or closer than thirty (30) inches (762 mm) center- to- center between toilets or adjacent fixtures. There shall be at least twenty- one (21) inches in front of the water closet or bidet to any wall, fixture or door. Water closet compartments shall not be less than thirty (30) inches (762 mm) wide and sixty (60) inches (1524 mm) deep. There shall be at least twenty- one (21) inches clearance in front of a lavatory and closets to any wall, fixture or door (see Figure 405.3.1)- Change eighteen (18) inches to read twenty- one (21) inches. The least space in front of a shower stall shall be twenty- four (24) inches by twenty- four (24) inches clear floor space.]

[Subsection 405.8 is hereby amended to add the following text:

Where two (2) fixtures are placed back to back (example: two (2) tubs, two (2) showers or tub and shower), an access shall be provided as to allow access for replacement or repair of the tub and shower valves or diverter access space shall be at least fourteen (14) inches by thirty (30) inches.]

SUBSECTION 417.1 IS HEREBY AMENDED TO ADD THE FOLLOWING TEXT: FIBERGLASS OR PLASTIC TUB AND SHOWER ENCLOSURES CANNOT BE INSTALLED WITH FAUCETS BACK TO BACK UNLESS APPROVED BY ADMINISTRATIVE AUTHORITY.

[Subsection 603 is hereby deleted in its entirety.
New section 603 to read as follows:

Section 603 Water Service.

603.1 Separation of water service and building sewer. The water service pipe and building drain or building sewer shall not have less than one foot horizontal distance between the piping.

603.1.1 Water service near sources of pollution. Potable water service piping shall not be located in, under or above cesspools, septic tanks, septic tank drainage fields or drainage pits. A separation of ten (10) feet shall be maintained from such systems. When a water line crosses a sewer, a minimum clearance of twelve (12) inches shall be maintained. The sewer line shall be of cast iron with leaded or mechanical joints at least ten (10) feet on both sides of the crossing.]

SUBSECTION 603.2 IS HEREBY DELETED IN ITS ENTIRETY.
NEW SUBSECTION 603.2 TO READ AS FOLLOWS:

603.2 SEPARATION OF WATER SERVICE AND BUILDING SEWER. THE WATER SERVICE PIPE AND BUILDING DRAIN OR BUILDING SEWER SHALL NOT HAVE LESS THAN ONE FOOT HORIZONTAL DISTANCE BETWEEN THE PIPING.

[Subsection 604.4 and Table 604.4 are hereby deleted in its entirety.
New subsection 604.4 to read as follows:

Subsection 604.4Maximum flow and water consumption.

604.4.1 Water Closet. Water closets, either flush tank, flushometer tank or flushometer valve operated, shall comply with ANSI/ASME A112.19.2 M, and have an average consumption of not more than one and six- tenths (1.6) gallons of water per flush in accordance with ANSI/ASME A112.19.6 Exceptions:

1. Fixtures marked for commercial use only.
2. If approved by the administrative authority, blowout water closets may be installed for public use in stadiums racecourses, fairgrounds, and other structures used for outdoor assembly and similar uses.
3. If approved by the administrative authority, water closets having an average water consumption of not more than three and one- half (3.5) gallons per flush may be installed in the following locations:
    a. Toilet rooms serving the public in assembly buildings listed in Table 403.1 International Plumbing Code.
    b. Where water closets must be connected to a drain line having insufficient flow for the transport of solid wastes and of such length as to create the potential for drain line blockage.

604.4.2 Urinals. Urinals shall comply with ANSI/ASME A112.19.2 M, and have an average water consumption of not more than one gallon of water per flush when tested in accordance with ANSI/ASME 112.19.6 Exception, if approved by the administrative authority, blowout urinals may be installed for public use in stadiums, race courses, fairgrounds, other structures used for outdoor assembly and similar uses

604.4.3 Non- metered faucets. Lavatory faucets shall be equipped with aerators and shall be designed and manufactured so that they will not exceed a water flow rate of two and one- half (2.5) gallons per minute when tested in accordance with ANSI/ ASME A112.18.1M.

604.4.3 Metered faucets. Self- closing or self- closing metering faucets shall be installed on lavatories intended to serve the transient public, such as those in, but not limited to, service stations, train stations, airports, restaurants and convention halls. Metering faucets shall deliver not more than one- quarter gallons of water per use, when tested in accordance with ANSI/ASME A112.18.1

604.4.4 Kitchen Faucets. Faucets for kitchen sinks shall be equipped with aerators and shall be designed and manufactured so that they will not exceed a water flow rate of two and one-half (2.5) gallons per minute when tested in accordance with ANSI/ASME A112.18.1M.
604.4.5 Showerheads. Shower heads shall be designed and manufactured so that they will not exceed a water supply flow rate of two and one- half (2.5) gallons per minute when tested in accordance with ANSI/ASME A112.18.1M. Exception: Emergency Safety Showers.]

TABLE 604.4 IS HEREBY AMENDED TO ADD THE FOLOWING TEXT:
(FOOTNOTE) C. METERED FAUCETS. SELF CLOSING, OR SELF CLOSING METERING FAUCETS SHALL BE INSTALLED ON LAVATORIES INTENDED TO SERVE THE TRANSIENT PUBLIC, SUCH AS THOSE IN, BUT NOT LIMITED TO, SERVICE STATIONS, TRAIN STATIONS, AIRPORTS, RESTAURANTS AND CONVENTION HALLS. METERING FAUCETS SHALL DELIVER NOT MORE THAN 0.25 GALLONS OF WATER PER USE, WHEN TESTED IN ACCORDANCE WITH ANSI/ASME A112.18.1

[Subsection 606.1 and 606.2 are hereby deleted in its entirety.
New subsection 606.1 to read as follows:

606.1 Valves in dwelling units.

(a) Individual fixture shutoff or stop valves shall be provided for water closets, lavatories, kitchen sinks, sill cocks and hydrants.
(b) Shutoff valves shall be provided for each powder room or bathroom group unless all fixtures within the room or group have individual fixture shutoff or stop valves.

(c) In a single dwelling unit, two bathrooms or powder rooms installed back- to – back or directly above the other may considered as a single group and shall be permitted to have one set of shutoff valves. If two such rooms are not piped as a single group, separate valves shall be provided for each room or group.
(d) In multi- dwelling units, one or more shutoff vales shall be provided in each dwelling unit so that the water supply to any plumbing fixture or group of fixtures in that dwelling unit can be shut off without stopping the water supply to fixtures in other dwelling units. These valves shall be accessible in the dwelling unit that they control.

606.1.1 Riser valves. Except in single dwelling units, a valve shall be installed at the foot of each water supply riser. In multiple dwellings of more than one story, a valve shall be installed at the top of each water supply down- feed pipe and also at the base where required to isolate this riser for servicing.

606.1.2 Individual fixture valves. In a building used or intended to be used for other than dwelling purposes, the water distribution pipe to each fixture or other piece of equipment shall be provided with a valve or fixture stop to shut off the water to the fixture or to the room in which it is located. These valves shall be readily accessible. Sill cocks and wall hydrants shall be separately controlled by a valve inside the building.]

[Subsection 606.5.10 is hereby amended to add the following text:
606.5.10.1 Installation of relief valves.
(a) No check valve or shutoff valve shall be installed between any safety device and the hot water equipment protected, nor shall there be any shutoff valve, traps or rises in the discharge from a relief valve that would prevent the valve from draining by gravity.
(b) Relief valves shall be provided with a discharge pipe no smaller than the relief valve outlet tapping.
(c) The outlet pipe shall discharge indirectly to a plumbing fixture approved for this purpose, floor drain approved for this purpose, sump pit, standpipe receptor or other approved point of discharge.
(d) The discharge end of a discharge pipe shall not be threaded.
(e) The discharge pipe shall terminate within six (6) inches above and turn down into the approved point of discharge.
(f) In addition to all other requirements, if the relief outlet discharge piping is installed so that it leaves the room or enclosure in which the water heater and relief valve are located, there shall be an air gap installed before or at this point of leaving the room or enclosure.
(g) This air gap shall be the same one used to comply with the other provisions in this section. All piping after the air gap, or indirect connection, shall be sized as a gravity drain. These provisions as to air gap and drain sizing shall apply to single and multiple relief valve piping installations.
(h) Materials used to extend relief valve discharge piping shall conform to section 605.5]

[Table 608.1 is hereby deleted in its entirety.
New subsection 608.1 Table is hereby added as follows:
Table 608.1 Type/ Location of backflow Prevention Devices- See insert pages (3).]

[Subsection 802.4 is hereby amended as follows:
802.4 Standpipes. Standpipes shall be individually trapped. Standpipes shall extend minimum of eighteen (18) inches (457 mm) and a maximum of forty- eight (48) inches above the trap. Access shall be provided to all standpipe traps and drains for rodding.]

Subsection 904.1 is hereby amended as follows:
904.1 Roof extension. All open vent pipes that extend through roof shall be terminated at least 6 inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the

vent extensions shall run at least 7 feet (2134 mm) above the roof. **ALL STACKS THAT TERMINATE THROUGH ROOF SHALL HAVE NO OFFSETS MORE THAN 45 DEGREE ANGLE.**

SUBSECTION 1003.2.1 IS HEREBY AMENDED TO ADD THE FOLLOWING TEXT: ALL GREASE INTERCEPTORS SHALL BE PLACED OUTSIDE OF BUILDING AND BE PLACED AS CLOSE AS POSSIBLE TO GREASE SOURCE. A 1000-GALLON CEMENT TANK OR OTHER TANK MADE TO PLACED UNDERGROUND SHALL BE USED. SEE FIGURE 1003.2.2. EXCEPTION 1. GREASE TRAPS MAY BE PUT INSIDE BUILDING BY ADMINISTRATIVE AUTHORITY.

[Section 1003.6 is hereby deleted in its entirety.]
[Section 1003.7 is hereby deleted in its entirety.]

[Section 1003.7.1 is hereby deleted in its entirety.]

[Section 1003.7.2 is hereby deleted in its entirety.]

[Section 1003.8 is hereby deleted in its entirety.]

Section [1003.5] **1003.4** Add the following text after subsection [1003.5] **1003.4**

e. Any new construction of a structure or renovation of an existing structure which discharges liquid wastes as described in section [1002] **1003** of International Plumbing Code or which discharges other industrial waste waters shall have the option of discharging into an on- site subsurface disposal system, providing the facility's owner/ operator applies for and obtains from the Maryland Department of Environment a water discharge permit issued pursuant to the provisions and conditions of COMAR 26.08.01-26.08.04.

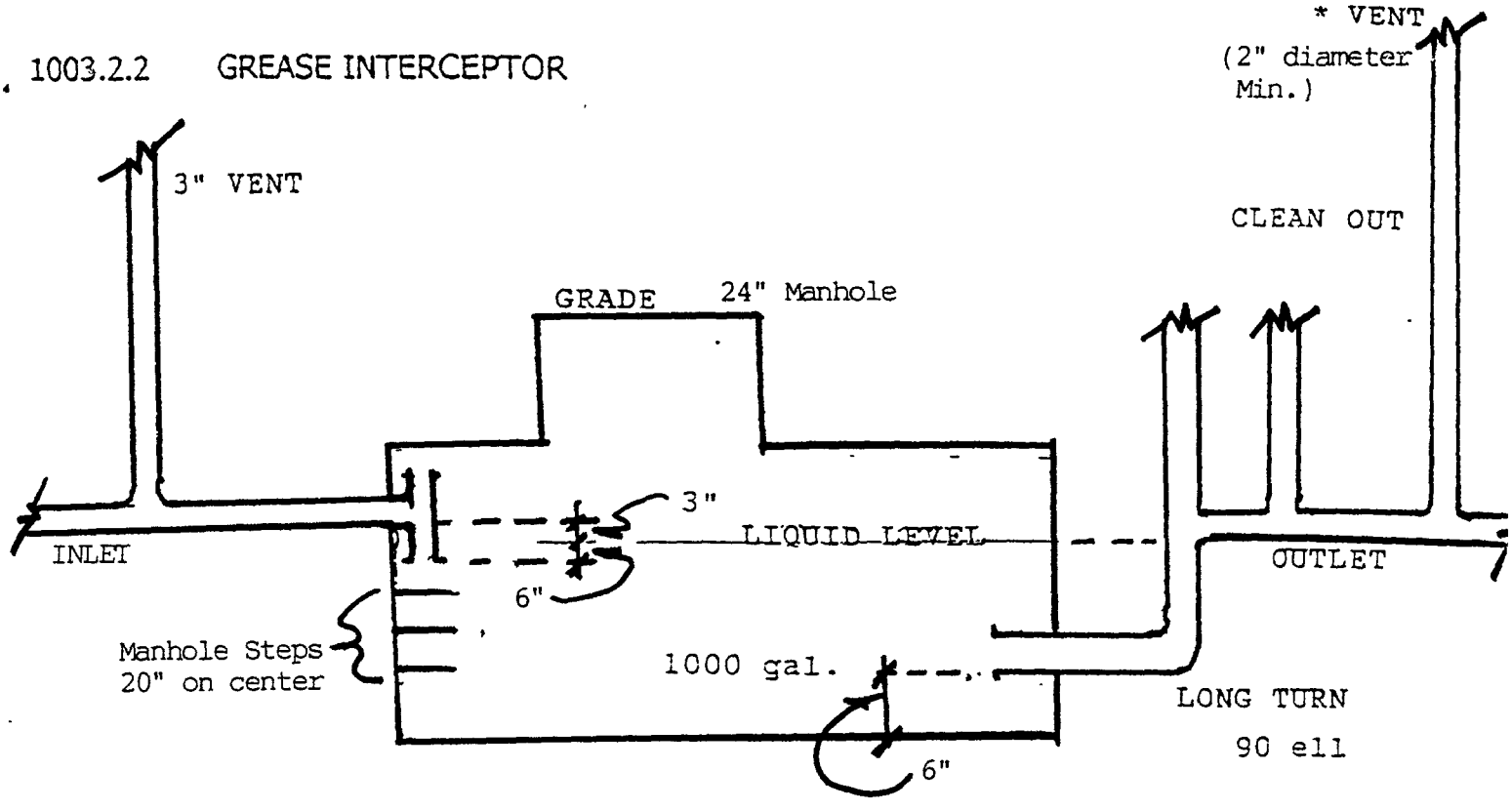
[a. Waste containing grease, oil, solvents or flammable liquids shall not be directly discharged into any sanitary sewer, storm sewer, or other point of disposal. Such contaminants shall be removed by an appropriate interceptor.]
[b.] **A.** (existing text)
[c.] **B.** (existing text)
[d.] **C.** (existing text)
[e. Where parking garages without vehicle washing or floor rinsing facilities require storm water drainage, drains shall be permitted to be connected to the storm sewer without a sand and oil interceptor. Such drainage, including melting snow, ice or rainwater runoff from vehicles, shall not be connected to a sanitary sewer.]
[f.] **D.** (existing text)

[Design of oil interceptors:

a. Where oil separators are required in garages and service stations, they shall have a minimum volume of six (6) cubic feet for the first one hundred (100) square feet of area to be drained into the separator. Oil separators in other manufacturer's rated flow.
b. Field- fabricated oil separators shall have a depth of not less than two (2) feet below the invert of the discharge line. The outlet opening shall have not less than an eighteen- inch water seal.
c. Manufactured oil separators shall be rated in gallons per minute of flow. They shall include a flow control device and adjustable oil draw off. Separators having tight- fitting covers shall have an internal air bypass opening.]

SUBSECTION 1003.4.2.1 IS HEREBY AMENDED TO ADD THE FOLLOWING TEXT:

1003.2.2 GREASE INTERCEPTOR



*IF VENT ON OUTLET SIDE MUST BE RUN HORIZONTAL IT SHALL BE WASHED WITH THE DISCHARGE FROM A HAND SINK OR SIMILAR FIXTURE.

[d.] **A.** (existing text)
[e.] **B.** (existing text)
[f.] **C.** (existing text)
[g. A sand interceptor complying with section 1003.8 shall be provided upstream from oil separators.]
[h.] **D.** (existing text)
E.COMBINATION OIL AND SAND INTERCEPTOR MAY BE INSTALLED IF APPROVED BY THE ADMINISTRATIVE AUTHORITY.

SUBSECTION 1003.9 IS HERBY AMENDED TO ADD THE FOLLOWING TEXT:
Vapor venting:

(existing text)
[Combination oil and sand interceptor:
A combination oil and sand interceptor may be installed if approved by the Administrative authority.]

[Where required:]

SUBSECTION 1003.5 IS HERBY AMENDED TO ADD THE FOLLOWING TEXT:

(existing text)
[a.] **C.** (existing text)
[b.] **D.** (existing text)
[c.] **E.** (existing text
[d.] **F.** (existing text)
[e.] **G.** (existing text)

New Section 1201 to read as follows:
Section 1201. Installation of gas appliances and gas piping. All installations of gas appliances and gas piping shall conform to requirements contained in the international fuel gas code, [1997] **2000,** which is incorporated by reference. For installation of elevated 2 psig gas pressure use guidelines for copper tubing natural gas systems manual, incorporated by reference.

CHAPTER 1 OF THE 2000 INTERNATIONAL FUEL GAS CODE IS HEREBY DELETED IN ITS ENTIRETY.

AND BE IT FURTHER ENACTED AND ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF FREDERICK COUNTY, MARYLAND that this Ordinance shall take effect after a fair summary is published in the Frederick News Post and a copy is filed with the Clerk of the Circuit Court for Frederick County.

The undersigned hereby certifies that the foregoing Ordinance was approved and adopted on the 4th day of April, 2002.

ATTEST:

Ronald A. Hart
County Manager

BOARD OF COUNTY COMMISSIONERS OF FREDERICK COUNTY, MARYLAND

By: _____
David P. Gray
President

MJC 4/9/02